LEDESMA G.P.S. SATELLITE LIVE TRACKER USER MANUAL

Thank you for purchasing the LEDESMA GPS LIVE TRACKER, the world's most advanced lighter, weightless and powerful tracking system. Our system is a true G.P.S. system, using Global Positioning Satellites to get the bird's position in the map.
Please read this instruction manual carefully and place close attention to the operating instructions.

This device is a quickly way to find your lost bird while you are using in normal GPS function. If you are using GPR-S option the battery time will be reduced and the GSM coverage must to be assured where you are flying. In any case we strongly recommend a radio emitter in the leg or tail as backup.

At **www.pigeongps.com** you can find all information you need and contact: info@todopalomas.com

LEDESMA GPS BIRD TRACKER

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1.INTRODUCTION

Because battery life and weight are the primary concerns from a Racing Pigeon / falconry point of view!
Lightweight and aerodynamic without any sharp edges, small and battery life!
With the ability to mount it comfortably & securely to a back-pack, would be the key ingredients.
You can dial in to see where the bird is. Low cost!
A system that quickly is an option by the whole Falconry & Racing Pigeon community.
With our many years of experience in racing pigeon sport and falconry, we have worked hard to develop an ultimate bird tracker.
With the powerful new LEDESMA GPS BIRD TRACKER, falconers can use REAL TIME GPS to track their birds.

2. Main Features:

- Made to the FALCONRY / RACING PIGEON community.
- With Altimeter Alert included. You can get an ALERT when the bird exceeded the altitude you want.
- Ultra small: 47 mm x 21 mm x 10 mm.
- Ultra light: 15 gr - 19 gr depend of the model.
- Without external Charger connector. We charge the unit from our new patent pending SIM-CHARGER!

- Compact and with 3 layers encapsulated against knocks and shakes.
- Versatile and ready to the back mount and tail mount.
- Enhanced leds.
- Locating and tracking via SMS, GPRS or missing call.
- +30 days under HACKING/SLEEP mode battery
- Locating and tracking via SMS or GPRS. Ready to "GPS-Trace Orange" traced each 20 sec.
- Battery low alert.
- Movement speeding alert.
- Listen in function. Ready APP for IPHONE, Android, etc.

3. Specifications

- Back or tail mount ready
- Dimension 47 mm x 21 mm x 10 mm
- Weight 15g – 19g
- Red GSM/GPRS GPS SATÉLITE REAL
- Sensitivity -159dBm
- GPS accuracy 3 m
- Operation temp -20°C to +55°C
- Charged by SIM CHARGER

4. Applications

- Falconry
- Racing pigeon sport
- Homer pigeons
- Small and big birds

5. Start up

VERY IMPORTANT TUTORIAL: Search on YOUTUBE for “ledesma gps 4.1”

The battery can be charged fully in 1 hour. In order to protect the device please use only the charger provided by the manufacturer.

SIM CARD: Please be sure that there is call display but no call transfer, and **PIN code is off**.
Take care::

1. **SIM card pin code must be deactivated**.
2. SIM card type is “Standard Size”
3. SIM card must have SMS credit. SIM card must to be only 3 tracks (See figure)
4. Check the SIM card in your own mobile first. You must assure it is able to send a SMS text to other telephone.
5. Insert the SIM card until you heard a “click” sound.

Switch on: Take the unit outdoors. The device will be switched on after inserting the SIM card.

Switch off: The device will be switched off after taking out the SIM card.

6. Mounting the unit over the bird

FALCONS: Back mount harness please.
EAGLES: Tail clip.

7. LEDESMA BirdTracker App

Download "Birdtracker" from AppStore(iphone) or Google Play Store(Android) and follow the steps:
Switch On: The device will be switched on after inserting the SIM card.
Once the device is yellow-light flashing every 5 seconds we must follow this steps:

1. Enter the APP

2. Enter your tracker name or create a new one

3. Enter the name and telephone number of the **SIM** card into the device!!. DO NOT MAKE A MISTAKE HERE!

APPLE 3G
LEDESMA Bird Tracker
Gyr Falcon
Locate
Send a command to locate the bird.
Listen
Call the GPS Tracker and listen in to what is happening. They cannot hear you.
Configuration
Change the configuration of the GPS Tracker, such as security parameters and button assignments.
Alerts
Change the safe zone, speed, and low battery alert configuration of the GPS Tracker.
Birds
About Bird Tracker

4. In the main menu click "CONFIGURATION"

APPLE 3G
Gyr Falcon
Configuration
Authorized Number
Configure the authorized numbers on the GPS tracker.
Password (default)
Change the password on the GPS tracker to provide an extra level of security.
Auto Track (20 seconds)
Configure the GPS tracker to automatically send its location on a given interval.
Local Time
Change the Time Zone of the GPS Tracker. All messages will report the time in the correct timezone.
Birds
About Bird Tracker

5. Click "Authorized Number"

6. Enter your own handy number and others optional.

7. Click + and the international prefix. In the example Ireland +353….. After that, you must get back a SMS from the device with confirmation. If you do not receive it, there a mistake in something and you are no able to follow the configuration!

APPLE 3G
LEDESMA Bird Tracker
Gyr Falcon
Locate
Send a command to locate the bird.
Listen
Call the GPS Tracker and listen in to what is happening. They cannot hear you.
Configuration
Change the configuration of the GPS Tracker, such as security parameters and button assignments.
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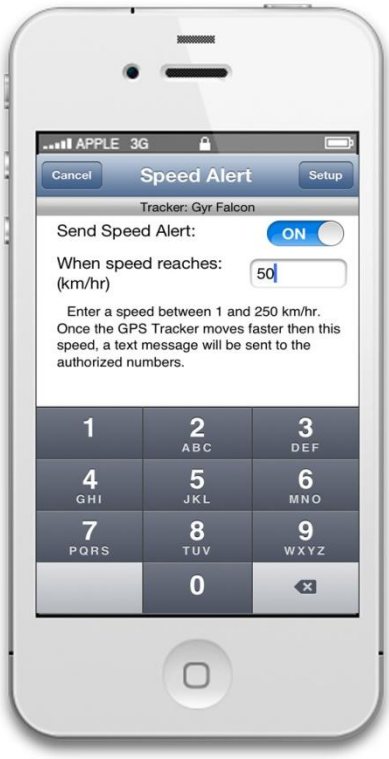
Change the safe zone, speed, and low battery alert configuration of the GPS Tracker.
Birds
About Bird Tracker

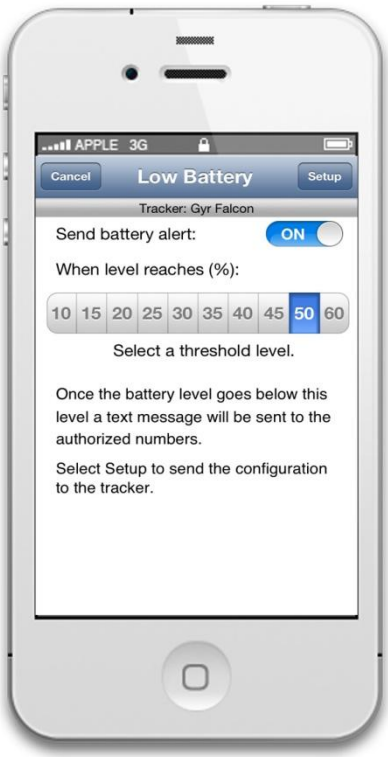
8. Click "Alerts" in the main menu

APPLE 3G
Gyr Falcon
Alerts
Speed Alert (20 km/h)
When the GPS tracker moves faster then the predefined speed, a text message will be sent to the authorized numbers.
Altitude Alert (200 m)
When the GPS tracker's altitude is greater than the predefined altitude, a text message will be sent to the authorized numbers.
Low Battery (30 %)
When the GPS Tracker battery drops below the theshold level, a text alert will be sent to the authorized numbers.
Birds
About Bird Tracker

9. Select “Speed Alert”, “Low Battery Alert” or “Altitude Alert”


APPLE 3G
Cancel
Speed Alert
Setup
Tracker: Gyr Falcon
Send Speed Alert:
ON
When speed reaches: (km/hr)
50
Enter a speed between 1 and 250 km/hr. Once the GPS Tracker moves faster then this speed, a text message will be sent to the authorized numbers.

10. Enter the speed limit value and activate or deactivate


APPLE 3G
Cancel
Low Battery
Setup
Tracker: Gyr Falcon
Send battery alert:
ON
When level reaches (%):
10 15 20 25 30 35 40 45 50 60
Select a threshold level.
Once the battery level goes below this level a text message will be sent to the authorized numbers.
Select Setup to send the configuration to the tracker.

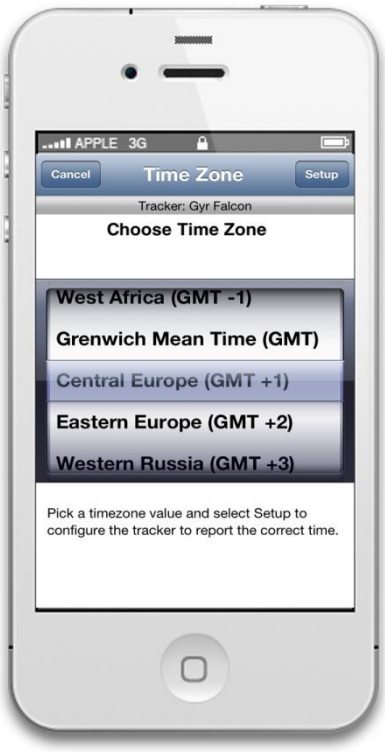
11. Battery alert value

APPLE 3G
Cancel
Altitude Alert
Setup
Tracker: Gyr Falcon
Send Altitude Alert:
ON
When altitude reaches: (m)
1000
Enter an altitude between 1 and 9999 m. Once the GPS Tracker travels higher than this altitude, a text message will be sent to the authorized numbers.
Select Setup to send the configuration to

12. Enter the altitude value and activate or deactivate

APPLE 3G
Gyr Falcon
Configuration
Local Time
Change the Time Zone of the GPS Tracker. All messages will report the time in the correct timezone.
Query Setting
Send a command to the GPS Tracker to query the current settings.
Query IMEI
Send a command to the GPS Tracker to return its IMEI number.
GPRS Settings
Change the GPRS settings and activate the feature on the GPS Tracker.
Birds
About Bird Tracker

13. In the CONFIGURATION menu we can change Local Time and GPRS options

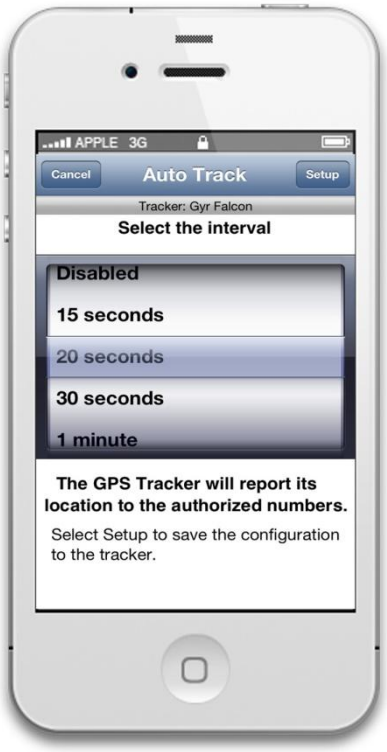

APPLE 3G
Cancel
Time Zone
Setup
Tracker: Gyr Falcon
Choose Time Zone
West Africa (GMT -1)
Grenwich Mean Time (GMT)
Central Europe (GMT +1)
Eastern Europe (GMT +2)
Western Russia (GMT +3)
Pick a timezone value and select Setup to configure the tracker to report the correct time.

14. Time Zone

15. GPRS options to track in real time from home and for our handy phone.

16. GPRS configurations. IP: 193.193.165.166. Port: 20696. The APN You can check at http://wiki.apnchanger.org

17. GPRS configurations. You can check params at http://wiki.apnchanger.org



18. Tracking interval

8. Locate the bird (ZOOM)

Alternatively, you can make a free missing call to the device in order to get the bird position or sending a "000000Z" SMS text. When we get the text with the bird position, we will get other useful information just before the link with the map:

By example: DATE: 13/08/26, TIME: 11/39/16, Speed:120.1 , 1 , 7 , 2.3 , 100.2 , 50 – 15, A LINK

120.1	SPEED
,1	(Future use)
7,	SATELLITE FIXED
2.3,	CALCULATION QUALITY (1=VERY GOOD, 4 = POOR)
100.2,	ALTITUDE IN METERS
50-	% BATTERY LIFE
15	GSP SIGNAL QUALITY
A LINK	The link to google maps with bird position

9. Listen in function

If authorized numbers calls the tracker and wait to the tracker pick it up. You can hear the sounds around the tracker. **ATTENTION**: This function least much battery. Don't use this function when you are looking for your lost bird and you have no enough battery charge.

10. Tracking live your bird with GPS-Trace-Orange (GPRS)

How to register and set up the Orange GPS-Trace account

Go to the page http://gps-trace.com and follow the link "Registration" in the right upper corner of the page.

Become familiar with the terms of agreement and press "I agree" if you want to proceed.

Fill in the registration form indicating your login, e-mail and password. Press "Create account"

Next you will see a message informing you about successful account activation. Now you can log in and start using your GPS-Trace Orange account.

Enter your user name and password and press "Enter" to proceed. You will see the main window of GPS-Trace system.

Open the "Settings" menu and choose the correct time zone, and daylight saving time, than press "Ok".

Open the "Settings" menu and select "Google Maps" option.

To bind your device to the service you need to press "Activate" in the left upper corner of the page.

In the new window you should fill in the following fields:

1. Device name (FALCON NAME)
2. Device type (choose "Ledesma")
3. Unique ID (the device IMEI code. Something as 3589450401711111. You can find it by click "Query IMEI" in BIRDTRACKER app).
4. The phone number of the SIM-card installed into your device.

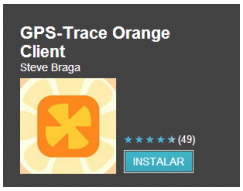
You should leave the field "Device access password" blank.

Press "Ok" to finish the device registration.

Your device is already registered in the GPS-Trace service and ready for use.

To use to track from your mobile phone: m.gps-trace.com

To use to track from your android mobile phone you can use a free app: "orange client"



Connecting to the server by GPRS:

1. Open BIRDTRACKER.
2. Set "ACTIVATE GPRS"
3. After system connects to the server the "Yellow Light" will flash twice every 5 seconds interval.

11. SLEEP/HACKING mode

From LEDESMA LIVE TRACKER 4.3 vers we are able to set the SLEEP/HACKING mode. The device can be settled to switch ON/OFF each selected time interval. It will save battery, by example, in the night times. Take care you need BIRDTRACKER update to 1.3.3(16) or above. If you put out the SIM card by about 5 seconds, the Hacking/Sleep mode will be shut OFF. **WARNING: If you activate the hacking mode, the device will switch OFF during the selected time interval and, during this time, the unit will be completely off. In this moment, we cannot turn ON or set off the hacking mode until finish the selected period of time! USE IT WITH CAUTION!**

APPLE 3G
Gyr Falcon
Configuration
Sleep/Hacking (disabled)
Configure the time intervals for the GPS tracker for sleep/ hacking.
Local Time
Change the Time Zone of the GPS Tracker. All messages will report the time in the correct timezone.
Query Setting
Send a command to the GPS Tracker to query the current settings.
Query IMEI
Send a command to the GPS Tracker to return its IMEI number.
Birds
About Bird Tracker
APPLE 3G
Cancel
Sleep/Hacking
Setup
Tracker: Gyr Falcon
Activate Sleep/Wake Up:
ON
Sleep Time:
600
minutes
Valid value from 30 to 3400
Wake Up Time:
30
minutes
Valid value from 10 to 50
Enter the number of minutes the tracker will be asleep and the number number of minutes the tracker will be awake.
Select Setup to save the values to the tracker.

12. Tips and tricks

Finding your hiding hawks in a forest at short distances

1. Dial to the tracker and wait to response.
2. Talk in your phone. You are going to hear yourself with a 1 second delayed. You will hear yourself more loud when you face is in the Bird direction!

Forcing the blue light

In some situations you can lose the blue light (Satellite). In normal operation mode the system get satellite position each 4 minutes if the tracker is GPRS deactivated. If you like to assure the device is getting the satellite position you can send a LOCATE command or missing call. It will force the device to try the satellite information immediately.

Exporting the path information to GOOGLE EARTH:

1. Open gps-trace.com website. Logon and click on “MESSAGES”. In the left bottom side click “Export Messages”

2. Select OziExplorer or Google Earth format.

13. Recommendations

1. Don't dismount the unit because it will turn useless.

2. If the weather is bad, ie. heavy rain make sure the unit is covered from dampness, I suggest to safe guard yourself to cover the SIM card with the supplied rubber cap.

3. To maintain the battery life never leaving the device in a hot car, especially if exposed to the sun. When not in use, store the device in a cool place. For long-term storage, we recommend a 40 percent charge. Do not worry too much about the state-of-charge; a cool and dry place is the most important.

4. Do no discharge the battery completely. Try to maintain over 40 percent charge.